

DRAFT - FOR DISCUSSION PURPOSES ONLY - NOT TO BE ENTERED**In the claims:**

Please amend the claims as follows:

48. (Amended) A method of forming an array of compounds on a support having one or more localized areas comprising

(a) locating a dispenser containing a solution comprising a compound a distance away from a surface of the support;

(b) dispensing a droplet of less than 5 nl from the dispenser, with the droplet contacting the surface at a localized area smaller than 1 cm²;

(c) allowing the compound to attach directly or indirectly to the surface of the support at the localized area;

(d) repeating steps a through c to attach a same or different compound at a same or different localized area until an array of at least 10 different reagents at different localized areas is formed.

82. (Amended) The method of claim 48 wherein the dispenser comprises a plurality of dispensing units, wherein the plurality of dispensing units is in fluid communication with a solution comprising a compound and wherein step b comprises dispensing a droplet of less than 5 nl from one or more of the plurality of dispensing units.

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117. (Amended) A method of forming an array of compounds on a support having one or more localized areas comprising

- (a) locating a dispenser comprising a plurality of dispensing units a distance away from a surface of the support, wherein the plurality of dispensing units is in fluid communication with a solution comprising a nucleic acid or polypeptide;
- (b) dispensing at least one droplet of less than 5 nl from the dispenser, with the at least one droplet contacting the surface at a localized area smaller than 1 cm²;
- (c) allowing the nucleic acid or polypeptide to attach directly or indirectly to the surface of the support at the localized area;
- (d) repeating steps a through c to attach a same or different nucleic acid or polypeptide at a same or different localized area until an array of at least 10 different compounds at different localized areas is formed.

146. (Amended) A method of forming an array of nucleic acids on a support having one or more localized areas comprising

- (a) moving a dispenser containing a solution comprising a nucleic acid having greater than 100 monomers toward a surface of the support;
- (b) dispensing a droplet of less than 5 nl from the dispenser, with the droplet contacting the surface at a localized area smaller than 100 µm²;
- (c) allowing the nucleic acid to attach directly or indirectly to the surface of the support at the localized area;

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(d) repeating steps a through c to attach a same or different nucleic acid at a same or different localized area until an array of at least 1000 different reagents at different localized areas is formed.

147. (Amended) A method of forming an array of nucleic acids on a support having one or more localized areas comprising

(a) moving a dispenser comprising a plurality of pipettes in fluid communication with a solution comprising a nucleic acid having greater than 100 monomers toward a surface of the support;

(b) dispensing at least one droplet of less than 5 nl from the dispenser, with the at least one droplet contacting the surface at a localized area smaller than $100 \mu\text{m}^2$;

(c) allowing the nucleic acid to attach directly or indirectly to the surface of the support at the localized area;

(d) repeating steps a through c to attach a same or different nucleic acid at a same or different localized area until an array of at least 1000 different reagents at different localized areas is formed.

166. (Amended) A method of forming an array of polymers on a support having localized areas comprising

(a) locating a dispenser comprising an array of dispensing units a distance away from a surface of the support; and

(b) dispensing polymers from the array of dispensing units and attaching them onto the surface at the localized areas to produce an array of at least 100 polymers.

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167. (Amended) The method of claim 166 wherein the polymers are dispensed as droplets of less than 5 nl.

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